Arizona Resumes Her Place at Head of All Copper Producing States of the Union; Industry Is on Its Way to New Records

Shackles Put on Production by War's Alarm Thrown Off to Meet Return of Prosperity

in the State of Arizona started out the pounds of copper in 1914, against 71, sear 1814 with a steady increase, 509,847 pounds in 1913 and 63,969,423 which but fair to makes another record pounds in 1912. The so-called lowfor that year. The declaration of war, grade schist and porphyry ores found however, in the European countries in Pragi and Gifa counties yielded 95, put an uncertainty into the business, 183,293 pounds of copper against 87, for a period of from 30 to 60 days, 072,406 pounds of copper in 1913 and production nimes; ceased with the 68,753,533 pounds in 1912. The copfall to start with the small producers, largely from the same class of deposition though many of the mines start its. ed within two months after curtailing operations, it was several months and which were shipped to smelter outside in fact way towards the end of the the state, amounted to 15,003,068 year before production was back to pounds, valued at \$585,120, against normal. As has since been proven, it 16,144,772 pounds in 1913, valued at od was unsafe, as the nurket for this junction with other ores.

excess stock was not certain. Although many of the mines retained zinc ores in 1914 amounted to 9,628,
their organization, and merely cut 067 pounds valued at \$527,972 in 1913. back to normal conditions.

Other states suffered similarly. The production in Montana was the smallest in many years, in fact the smallest since 1298. In Michigan the produc "Arizona First" tion in 1913 was below normal because of labor troubles, so that in 1914 there was a slight increase of \$,000,000 nounds. Nevada, California and Tenhence decreased in about the same proportion as did Arizona.

The sold produced in Arizona in "See Arizona First". This is the and from ores cyanided \$2,157,080 Where everyone lives outdoors Concentrates contained \$318,186 and There is a great deal of misinforms ores shipped to ameliera \$1,410,606.

the gold mining other than to stimulate it, as the demand for gold did not Great copper

Silver production from Arizona cres and placers increased from 2.943,001 ranges are carrying thousands of herds ounces, raised at \$2.784,647 in 1913 to of cattle and sheep. Forests of pine-4.377,994 ounces valued at \$2.491,031 ores, principally by cyanidation, yielded 617.048 ounces of allver in 1914; concentrates produced 423,982 ounces; and Vavapui County 786,917 ounces in is not inconvenient.

silver of Armona is produced in con-fied Forest. Ice caves. Cliff dwellings. the blossoms of affalfa. From the contrast. justion with the gold or the copper. Cathedral cave and Cave houses are bloom that is on the desert plants. All branches of education are well surance policy.

This was influenced by the European all worth visiting. Indian pueblos even, and bringing it all to the service provided for, and everywhere the best "Back to the land" is having a

County, with copper Mountain and clusters of roses red, red, red. copper, against 35,719,973 pounds in sands of busy hives where bees are of color, myriads of bloom, and birds water when he wants it. "Safety first" average

After a record production of \$70, 1913 and 34,043,005 pounds in 1912. 000,000 in 1913, the mining maustry Gila County, including Globe and Milarger producers and did cease and per output of Greenlee County came

Was not at all necessary to have the \$710,370 and 6,086,442 pounds in 1912. mines that down, but the conditions Most of the lead ore is produced in at that time indicated that there would the vicinity of the copper mines in the be a great lessening of the amount of Warren or Bisbee district in Cochise coppur exported, and for a period this County, which yielded ores containing was true, as the experts on copper de- 9,331,116 pounds. Mohave County folcreased from \$25,000,000 pounds in lowed with 3,718,057 pounds; Pima 1913 to about \$50,900,000 pounds in County with 769,145 pounds and Santa 1914. With the curtailing of the ex- Cruz county with 403,272 pounds. Conparts, it was evident that unless the centrates yielded 4,306,977 pounds of minor and smelters could operate on lead and 10,958,091 pounds of lead were their surplus and retain their stocks contained in crude dre shipped to they would be forced to shut down, smelters. Lead is mined separately in It was considered that even this meth- Arizona but little, being mostly in con-

down to the lowest operating capacity. Mines producing most of the zinc ores it took considerable time to get them are situated at Union Pass and Chiorlide in Mohave County, and the ores. The Arizona mines in 1914 yielded produced are estimated to have congold, effver, copper, lead and zinc, val-tained 9,533,650 pounds of spelter in ted at 359,9,956,029, against \$70,875,- 1914, against 7,031,400 pounds in 1913 027 in 1813, a decrease of \$10.918,998, and 8.304,462 pounds in 1812. Produc-Continued on Page Two.

Is Suggestion To Sightseers

1914 amounted to 202,166.62 ounces, first duty of every American. And valued at \$4,179,155, an increase of \$155,244 Or this output, \$39,140 came from placers, \$3,002,702 from dry or silicious are and \$1,051,014 from cop. per ore. The largest production of section near the Mexican border where gold was from Mohave County-\$1, the oldest civilization on this contin-1913. Gold production from ores of sunshine. Supposed to be the land amplemented amounted to \$259,063, or little rain. Where water is wealth.

oros shipped to smelters \$1,410,606.

There is a very considerable warecorded production from placer gold,
as many of the gold placers of the
state are worked in a small way by state are worked in a small way by ful. But get into the back country, the Mexicans and Indians who do not and then the possibilities of the State make any report on the same. The are realized, and there appears to the declaration of war did not influence observing eye a limitless resource in

Great copper camps of the state are turning out over a million pounds of the rod metal every day. And great covered mountain ranges and broad In 1914. Or this amount 2,604,371 plateaux. Wherever water can be diconness came from copper ore, 1.13%, verted it is made to serve man through 976 cunces from dry or silicious ore. irrigation and when the water reaches and 495,256 ounces from lead ore the soil there results a growth of vege-Bullion recovered from gold and silver ration that is wonderful. Nearly everything can be grown in Arizona.

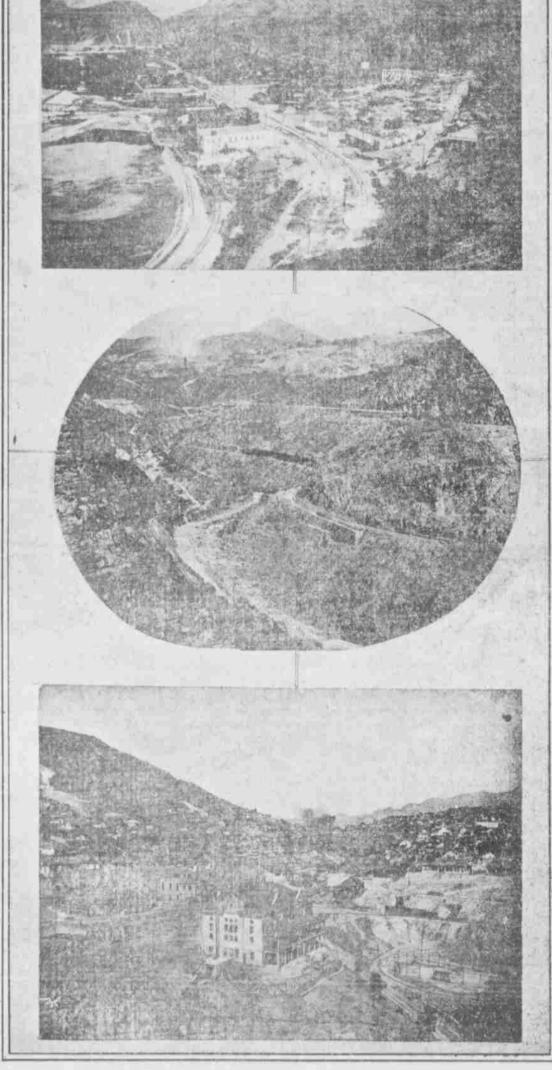
Elevations vary from the snow cladpeaks of the San Francisco moun and crude are shipped to amelters contains to the low levels of the deser tained 5,280,567 ounces. Cochise coun-plains. The air is always dry. There ty mines produced 2.753,953 ounces in is no humidity and the hear though 1914 against 2,127,191 ounces in 1913, registering high upon the thermometer

The copper output from Arizona sided mesas, overlooking the sur-triches grazing in the fields like so learning. ores, principally from crude ores and rounding valleys from beights of six many cattle. The operation of farming under the region, eastern capital was enlisted, in opening the territory to immigraconcentrated decreased from 407.923. hundred to a thousand feet. Enormous loaded with giant clusters of delicions makes for and more prominent mining settle too and capital. Refore the advent 402 pounds, valued at \$63,228,127 in indian reservations. Fine trout fruit and everywhere there are sizes no place for the penniless. No leavy winer labor ments were made in the Santa Rita of the railroads ore that would not 1913 to \$33,917,400 pounds, valued at streams. Good hunting grounds and of peace and prosperity. 352.271.314 in 1914, but Arizona conin- fishing streams and lakes and finally Not all of this has been acquired of benefit to the sick, but good food instead, a comfortable working weath. 1855, about which time the historic worthless ties at the head of the list of copper and best the great, smiling valleys, without a struggle. The effort made, and other comforts are only to be had or practically continuous the year Mowry mine was located. In 1857 the producing states. The concentrated rich with every kind of plant and tree has been long and strenuous. Extra at a fair price. In any growing com- round. The farmer cuts his crops of country between the boundary and the Empire district was opened and

produced contained 158.985.306 pounds life. Green fields of alfalfa stretching ordinary conditions must be overcome munity the cost of living is in ratio affaifa in December and in February Calabazas was reported by the Emery to Total Wreck mine, which was of the output in 1914, and the crude for miles. Orchards or orange, live but the success that crowns the work with the prosperity. The country under a smiling sun. Under such conore shipped to smellers amounted to and decidnous fruits. Fat cattle knew is not less than the task accomplished throughout parts of all Arigona to ditions farming is kery attractive. 233,647,975 pounds. Cochise County, deep in lush pastures. Canala and deserves. Pheonix, the capital city prosperous, generally speaking there. We want to see America Pirst, and Warren or Bishee district, being cred. disches brim full of life giving water. of the Blate, is worthy of the people is an ample supply of labor, especially no better place to start with, than the life first at San Anionio. Texas, arrived at of the ore, which was chiefly silver at San Anionio, repectably at San Anionio, repetable at San Anionio, r 165,102,854 pounds in 1913. Greenlee the highways, and everywhere great a more heautiful setting. The gardens had and they are well worth investi west that clyffication on this continent allers mines in the Santa Rita and ad- bonate of lead. manganese and iron,

ci region the principal producers, ley, where the great irrigating system, trip to see. In midwinter when anow operated under an irrigation system prosperity. yielded 65,553,501 pounds of copper, the chief work of which is the Roose and ice make existence a strenuous and here in the Salt River Valley all against 69,466,560 pounds in 1913, well Dam, has turned the desert into matter in les favored sections of the conditions are in favor, of twenty Yavapai County, including the Verda a land flowing with milk and honey country these grounds are rich in per acre farms. Soil is right, climate is an in Arizone. Only 17 degrees varia- time an association formed in Cincin milling being about \$8 per ton. In district, produced 24 057.952 pounds of it is not a dream. There are thou fume from countiess flowers. Masses and night, is the name, Ohio, with offices also in Tuber. the promising

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Upper Clifton-Center, Between Clifton and Morenci-Lower, Morenci.

and grounds surrounding the State gation. Greenice districts of the Clifton-Moren | This is in brief, the Salt River Val- House are alone worthy of a special | The small farm is at its heat when still leads in matters of progress and Sonora Mining and Exploring company 70 ton mill operated on the ground

In as much as practically all of the limited. The Grand Canyon, the Petri, tracted from fruits and flowers. From sun, and fleesy clouds to make a color any oter industry, and water when it was worked probably about the mid-which soon produced considerable

and in providing much that will be when the weather works a bardship, and Patagonia mountains as early as yield \$100 per ton was passed by as

development is given to the calf of stronger appeal in the Southwest than in 1855, Americans, including Poston cife in 1879 and that of the Atlantic in many other sections of the country. Nowry and others, began to enter the and Pacific in 1883 were potent factors

began and in many ways the section joining mountains, and in 1857 the was about \$60 to the ton. A 20-stamp

Search for Arizona's Treasure First Started in Southern Section of State by Indians

The first mining in the southern of about 500, negatived title to valupart of Artzonn of which any record able mining property in the Ainscoon is available was done before the Span-mountains on the west and the Santa Ish conquest of Mexico in the six- Riss mountains on the care, including I teenth century, according to F. C the old Salero mines or the Jesuita. Schrader of the United States geologi- Here, too, was the headquarters of the cal survey. This mining was done by Sonora Mining and Exploring comthe semi-civilized ancestors of the pany, of which Major Heistzeiman of Papago Indians, who inhabited the the United States army was presi-Santa Rita mountains and the region dent. Its operations were conducted adjoining on the west, once known as mostly north of Tubac, the principal

precious metals was pushed north on mulchack more than 1000 miles to westward by the Mexicans in the the City of Mexico. northern part of Mexico in the early Smelters Are installed, part of the sevence on the confury or in 1858 the Santa Rita Mining com before. In the northern part of So pany was organized for operating nora, about twenty miles southwest both old and new properties in the district, one of the oldest and richest Trenck, Companiere, and other veins mineral regions in North America, were being worked in the Patagonia and a stampede to the region.

Missionaries Come First. teys and the mimeral wealth of this mine, southwest of Patagonia, and at new country led to the establishment Dusquesne, near the Mexican border, on the Santa Cruz of the missions of They were mostly built by Americans established at Guevavi or Guebahi middle and late 50's, the mining inabout thirty miles south of Turson, in dustry of this region was developed 1687, and those of Sun Navier and with considerable success and bril Cumeracori soon followed,

bearing on the mining history of this troops and the tribuples of the region in that their founders and keep. Apachieers, the Jesuit fathers, were in a sense the ploneer miners of the country and. To protect the settlers against the

Real Conquest Begins.

driven out, but they were as often re- the exploitation of many new prop-1914, against \$54,049 curies in 1913 The attractions for tourists are un-boarding the honeyed sweetness ex beingin. The over blue sky, the warm is just as applicable to farming as to was the Santa Rita del Cobre, which Greaterville districts, the latter of s required, provides one big crop in- die of the thirties and produced ore placer gold. yielding 75 per cent of copper.

After the Gadsden purchase, made: The completion of the Southern Paboundary survey to be full of pros tapidly developed to a depth of 260

pestors from California. First Companies Form.

Bishes has the most equable climate ment of these mines. About the same duced \$450,000, the cost of mining and which by this time had a popluation

the Papagueria. Here are the oldest property being the Hentzelman mine, mines on the Pacific slope north of which, in 1857, had opened to a depth Mexico. This silver mining region in Ari- \$20,000 in silver sulphide ore averagone is the northwest continuation of the about \$1400 to the ton. In 1860 he great aliver mining region of Mex. inthe was still producing annually eo, which, notably in the states of about \$2500 in allver, which was cast Chihuahua, Durange and Sonora, pro- into small bars and used as a cir-duced millions of dollars worth of all vulsting medium. So rich was some From central Mexico, search for the regions that it paid for transportation

of Noyales, is the Pianchas de Plata Santa Rita mountains; the Mowers, elebrated for its great production and mountains, and smelters being inlarge nuggests or masses, of native stalled for the reduction of ores. The silver. The largest mass, said to have ore of those mines, especially that of weighed 2700 pounds, was discovered the Mowry, was said to be of high in 1736 and caused great excitement value, yielding, besides the large percentage of offers, about 50 per cent of lead, which was in demand by the The first civilized men to visit the neighboring companies to be used as Arizona region were the Spanish flux in reducing their less favored lesuit missionaries, who from Sonora weet. The Santa Rita and the Patan 1687 explored the valley of the gonla mountains contain a score or Santa Cruz river and considerable por more of the crude adobe smelters or tions of the Gila and San Pedro val. their ruins, examples of which may leys. Their reports of the tertile val. be seen in Alum canyon, at the Jarillo San Xavier del Bac, Tumacacori, San after the Gadeden purchase and are tiago and San Casetano, the town of an adaptation of the old Mexican for Tobac, and further north, that office diving in efforts to extract the metals sen. The first mission in Arizona was from the ores. In short, during the "unneacori soon followed. Han prospects, until interrupted by These missions have an important the Civil war, the withdrawal of the

conducted mining operations with a Indians old Fors Buchanan, of which pressed Indians, in connection with built and narrisoned at the head of their missionary work. That they School's Creek, near the center of the must have operated on a considerable area, in 1855 and 1856 Later thoscale is indicated by the extent of mining industry derived naterial bonthe workings and the slag dumps still ells from the semi-monthly scage line seen near the mission ruins. They and the Butterfield semi-weekly mail named the old Salero and the other route between San Antonio, Texas, mines in the Santa Rita region. and San Diego, Cal., via Tueson, The San Xavier mission, nine miles from 1857 to 1861. The breaking out south of Tueson, founded prior to 1694 of the Civil War, with the withdrawal and still standing, an object of while of the garrison and the consequent to inurists, is described as a large atrocities of the Apaches and the ahanchurch with imposing architecture, in donment of the camps put an alwhich \$40,000 in solid silver, taken most abrupt stop to the mining infrom the mines in the Santa Rita dustry of Arizona and for years renountains nearby, was used to adorn birded the development of the territury. After the subjugation of the Indians the industry in the Santa Rita Further explorations and discov region was accessfully revived in eries were made about 1810 and after the early or middle 70's by Col. W. J. that date conquest and settlement of Boyle and others and ores from the the country were prosecuted with croppings, it is reported, were found vigor both by the Jesuits and by the to range from \$20 to several hundred Spanish government. The missions dollars, and from the shafts from \$50 and settlements were repeatedly de to many thousand dollars to the tun-stroyed by the Apaches and the This revival, besides involving the priests and settlers massacred or reoccupation of most of the old and established, and up to 1820 the Span, erties, including the opening of the lards and Mexicans continued to work east slope of the Santa Rita mountains many valuable mines. The best kwaon of a new lead and gold region, commine about this time, or a little later, prising the present Wrightson and

Rallroads Open Way.

feet with much fateral work, soon became the foremost bullion producer in and the Arizona Mining Company were extracted \$4 per cent of the metal conformed for the purchase and delop tents and during five months had pro-Continued on Page Two.